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Claims

[c1] 1. A resilient elastomeric support structure for use in a ride comprising an elastomeric body that includes a first connection formation for connection with a supporting foundation, a second connection formation for connection with a ride body, and a connection region interconnecting the first and second connection formations, the elastomeric structure being formed of polyurethane.

[c2] 2. A resilient elastomeric support structure according to claim 1 in which the polyurethane contains an ultraviolet stabilising formulation.

[c3] 3. A resilient elastomeric support structure according to claim 1 or claim 2 in which the elastomeric body is formed as a one-piece moulding.

[c4] 4. A resilient elastomeric support structure according to any preceding claim in which the connection formation includes a securing region.

[c5] 5. A resilient elastomeric support structure according to claim 4 in which the securing region includes a flange formed in the elastomeric body.

[c6] 6. A resilient elastomeric support structure according to claim 4 or claim 5 in which the securing region includes one or more securing formations that can interact with fasteners to secure the elastomeric structure to a supporting foundation or to a ride body, as the case may be.

[c7] 7. A resilient elastomeric support structure according to claim 6 in which the securing formations includes holes, through each of which a fastener, such as a bolt, can be passed.

[c8] 8. A resilient elastomeric support structure according to any one of claims 4 to 7 in which the securing region is disposed such that material of the elastomeric body is held substantially in compression by a fastener.

[c9] 9. A resilient elastomeric support structure according to claim 8 in which the elastomeric structure includes a respective reinforcement member provided as part of each connection formation.

[c10] 10. A resilient elastomeric support structure according to claim 9 in which a reinforcement member includes an annular element, typically of metal, that lies on or adjacent to a flange that is formed integrally with the elastomeric body, and which, in use, can hold the flange in compression.

[c11] 11. A resilient elastomeric support structure according to any preceding claim in which the elastomeric body is covered with a defensive cover of chain mail.

[c12] 12. A resilient elastomeric support structure according to any preceding claim formed integrally with a ride body.

[c13] 13. A resilient elastomeric support structure according to claim 12 in which the elastomeric body and the ride body and the ride body are formed as a single moulding.

[c14] 14. An amusement ride comprising a ride body and one or more elastomeric structures, each in accordance with any preceding claim, upon which the ride body can be supported.

[c15] 15. An amusement ride according to claim 14 that has a ride body that is supported on a single support structure such that it can rock laterally and/or bounce vertically.

[c16] 16. An amusement ride according claim 15 that is supported upon two spaced supporting members.

[c17] 17. An amusement ride according to any one of claims 14 to 16 that is configured such that a rider or riders can sit upon the ride body.

[c18] 18. An amusement ride according to any one of claims

14 to 17 in which the ride body and the elastomeric body are formed as a single moulding of polyurethane.

[c19] 19. An amusement ride according to any one of claims 14 to 18 in which regions of the ride body with which a rider makes direct contact may be integrally skin foamed.

[c20] 20. An amusement ride according to claim 19 in which the foamed regions are formed in one moulding with non-foamed regions.

[c21] 21. An amusement ride according to any one of claims 14 to 20 having additional components formed as additional mouldings.

[c22] 22. An amusement ride according to claim 21 in which the additional mouldings are of flexible or rigid material.

[c23] 23. An amusement ride according to claim 21 or claim 22 in which the additional components are co-moulded with the polyurethane moulding of the ride body to cover the additional components.

[c24] 24. An amusement ride according to any one of claims 21 to 24 in which the polyurethane in the region of the additional components is integrally skin foamed.

[c25] 25. An amusement ride according to any one of claims

14 to 24 in which ride body is shaped include representations of animals, birds, plants, machinery such as cars or rockets

26. An amusement ride according to claim 25 in which the design of the ride body is anthropomorphised by the addition of features that resemble facial features.

[c26] 27. A resilient elastomeric support structure substantially as herein described with reference to the accompanying drawings.

[c27] 28. An amusement ride substantially as herein described with reference to the accompanying drawings.